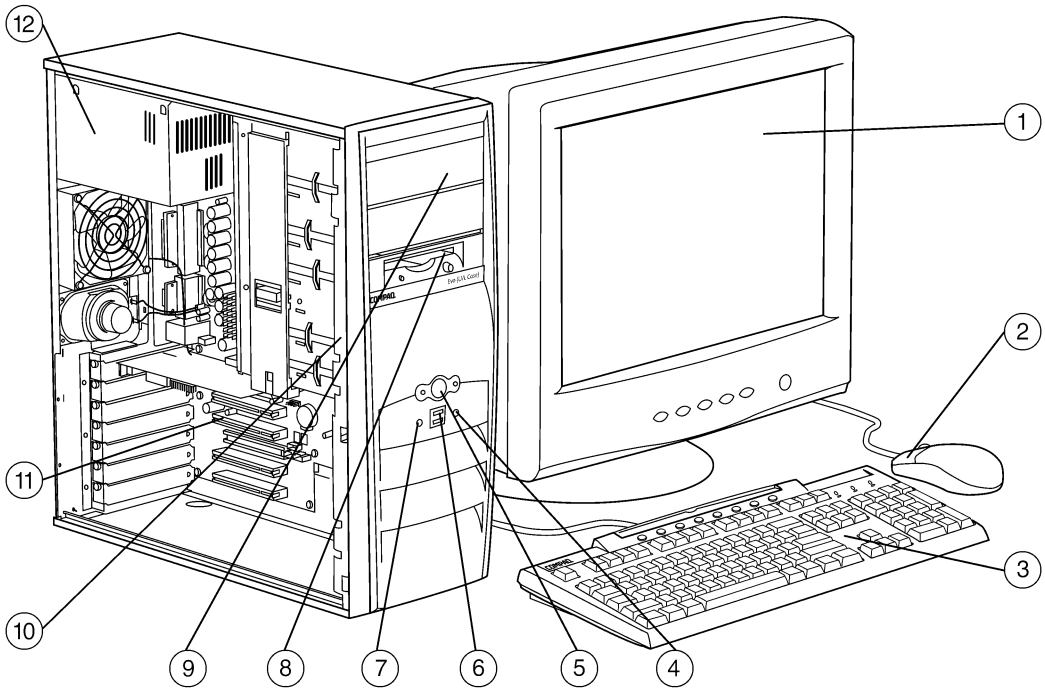
Overview

What's New

- Intel®Pentium® 4 processors
- Intel® 845 chipset
- New Evo industrial design with carbon and silver color
- Front I/O ports

At A Glance

- Intel®Pentium® 4 processors with 400-MHz Front Side Bus
- Available in Convertible Minitower form factor
- Pre-loaded Microsoft Office and Norton Antivirus software applications
- Energy Star compliant with energy-saving features
- Windows XP Ready
- Protected by Compaq Services, including a 1-1-1 limited warranty. Certain restrictions and exclusions apply.



1. CRT Monitor (sold separately)
2. 2-Button Scroll Mouse
3. Easy Access Keyboard
4. Microphone Connector
5. Dual-State Power Button
6. USB Connector
7. Headphone Connector
8. 1.44-MB Diskette Drive
9. 2 External Expansion Bays
10. SMART III Ultra ATA/100 Hard Drive
11. Expansion Slots
12. 250-Watt Power Supply

Standard Features – Select Models

Compaq Evo Desktop D300s Series with 845 chipset

Pre-Configured Models	**Model Key**	
	Example:	**D3Ms/P1.5/20j/2/128c6E**
	D3Ms =	Evo D300s Convertible Minitower
	P1.5 =	Pentium 4 1.5-GHz processor
	20 =	Hard Drive, 5400rpm
	j =	845 chipset
	8 =	Microsoft Windows 98 SE
	2 =	Microsoft Windows 2000 SP2
	128 =	Memory, PC133 SDRAM
	c =	48X CD-ROM
	6 =	nVidia Vanta 16MB 4X AGP graphics
	E =	Microsoft Office XP Small Business
470023-464	D3Ms/1.5/20j/8/128cv	
470023-465	D3Ms/1.5/20j/2/128cv	
470023-466	D3Ms/1.7/40j/8/256cv	
470023-467	D3Ms/1.7/40j/2/256cv	

Standard Features – Custom Components

Compaq Evo Desktop D300s Series with 845 chipset

Processor and Speed	**Intel Pentium 4 Processors**	**Standard L2 Cache**	256-KB Integrated ECC
One of the following	1.5-GHz	**Front Side Bus**	400-MHz
	1.6-GHz	**Maximum Memory**	1.5-GB
	1.7-GHz		
	2.0-GHz		

Hard Drives	20-GB 7200 rpm Quiet Seek and Idle SMART IIII Ultra ATA/100
One of the following	20-GB 5400 rpm Quiet Seek and Idle SMART IIII Ultra ATA/100
	40-GB 7200 rpm Quiet Seek and Idle SMART III Ultra ATA/100
	40-GB 5400 rpm Quiet Seek and Idle SMART III Ultra ATA/100
	60-GB 7200 rpm Quiet Seek and Idle SMART III Ultra ATA/100
Standard Memory	512-MB SDRAM (PC133) (1 x 512MB)
One of the following	256-MB SDRAM (PC133) (1 x 256MB)
	128-MB SDRAM (PC133) (1 x 128MB)
Removable Storage	1.44-MB Diskette Drive
	Zip 250 Drive including one disk
Optical Storage	48X CD-ROM Drive
	16X/40X DVD-ROM Drive (with DVD-RAM disc read capability)
	16X/10X/40X CD-RW Drive
Keyboard/Mouse	Easy Access Keyboard
	2-Button Scroll Mouse
Audio	Integrated AC'97 Audio with Internal Speaker
NIC	Integrated Intel PRO/100 VM Network Connection
Modem	Lucent V90 56K PCI Modem (V.92 upgradable)
Graphics	NVIDIA Vanta 16-MB 4X AGP
	NVIDIA GeForce2 MX200 16-MB 4X AGP
	NVIDIA GeForce2 MX400 32-MB 4X AGP
	Matrox Millennium G450 Dual-Head 32-MB 4X AGP
Operating System	Microsoft Windows 2000 Professional SP2
One of the following	Microsoft Windows 98 SE
Productivity Software	Microsoft Office XP Small Business
One of the following	Microsoft Office XP Professional
Antivirus Software	Norton Antivirus 2001
Intelligent Manageability	Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

Expansion Capability	Memory Expansion Slots	3 DIMMs
Slots	PCI	3 (3 on PCA)
	AGP	1 (1.5V AGP 4X)
Bays	Internal	(2) HDD
	External	(2) 5.25" 1/2 ht
		(1) Floppy
Dimensions (H x W x D)	Inches	17.65 x 6.6 x 16.8 inches
	Centimeters	44.8 x 16.8 x 42.7 centimeters
Weight	System Weight	26.0 lbs / 11.8 kg
	Weight Supported	100 lb / 45.5 kg
System Memory	Type/Speed	SDRAM DIMM - PC133 Only
	Current Maximum Memory	1.5-GB
	Maximum Memory	3-GB (when 1-GB PC133 SDRAM are available)
	Memory Parity	Not Supported
	ECC Memory	Supported (Intel 845 chipset does not support mixing of Non-ECC and ECC PC133 memory)
	Serial Presence Detect Support	Mandatory as part of PC133 Spec
Supported Features	Processor	Intel Socket 478
	CPU Bus Speed Supported	400-MHz
	Memory Type Supported	SDRAM
	Memory Speed Supported	PC133 Only
	SPD Support	Yes
	Hard Drive Interfaces Supported	SMART Ultra ATA/100/66/33
	Hard Drive Controller (PCI) Interfaces Supported	SMART Ultra ATA/100/66/33
Intel® Pentium® 4	Coprocessor	Yes
	CPU Socket Type/Number	Surface Mount ZIF Socket - 478 Pins
	CPU Package	mPGA478B, FC-PGA2
	Front Side Bus Speed	400-MHz
	Standard L2 Cache	256K
	L2 Cache Architecture / Speed	Advanced Transfer Cache on Die with 8-way associativity and Error Correcting Code (ECC) / Full Speed of Processor

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

System Board	Architecture	P4 / PCI / AGP 4X	
	Chipset	Intel 845 Chipset	
	I/O Controller	Super I/O 3	
	System Board Form Factor	Standard uATX	
	Processor Socket - 478 Pin ZIF	Yes	
	DIMM Connectors	Yes (3)	
	AGP Connector	Yes (1)	
	AGP Integrated	No	
	PCI Connectors	3 standard	
	Flash ROM	Yes	
	Audio (ADI 1885 - AC97)	Yes	
	CD ROM IN (Audio)	Yes	
	Clear CMOS Button	Yes	
	CPU Fan Header	Yes	
	Chassis Fan Header	Yes	
	Chassis Speaker Header	Yes	
	CMOS Battery Holder - Lithium	Yes	
	NIC	Yes	
	Wake-On-Lan®	Yes	
	Alert-On-LAN®	Yes	
	Power Supply Header	Yes	
	Power Switch, Power LED & HD LED Header	Yes	
	Password Clear Header	Yes	
	Reset Header (Not Installed)	Yes	
	SCSI LED Header	Yes	
	Speaker Header	Yes	
	Boards that connect to System Board	Convertible Minitower	Solenoid Lock PCB (Option) PCI Extender Board - 2 additional PCI Slots Front I/O Board (Option)

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

Serviceability Features of System Board	Dual Color Power and HD LED - To Indicate Normal Operations and Fault Conditions	
	Blinking Diagnostic Keyboard LED Codes	
	Diagnostic LED Label under Hood Cover	
	User Diagnostic Software Support	
	Over-Temp Warning on Screen (Need Intelligent Manageability to work)	
	Compaq Software Restore CD	
	Flash ROM	
	3.3V Aux Power LED on System PCA	
	Dual Function 5V Aux Power LED (ON) /PS_ON LED (OFF) on System PCA	
	Processor Hot LED on System PCA	
	Diagnostic Power Switch LED	
	Clear Password Jumper	
	Clear CMOS Button	
Convertible Minitower Chassis	Color	Silver/Carbon
	System Board Form Factors Supported	Standard uATX & Standard ATX
	Cooling Solutions Supported (3 Fans)	Variable Speed Power Supply Fan
		Variable Speed Processor Fan Heatsink
		Variable Speed Chassis Fan
	Slots Supported	4 Full Length, Full Height Slots (1 AGP and 3 PCI)
	Front I/O	Front Headphone, Mic, and 2 USB (Option)
	Rear I/O	Standard ATX I/O Panel
	Internal Speaker	Yes
	Custom Power Supply	250-Watt Enhanced ATX PS
	Security Locks Supported	Kensington Cable Lock
		Security Module (Solenoid Hood Lock and Hood Sensor)
		Compaq Lock Bracket – 173234 (chassis securement only, hood lock required to secure hood)
	Power Switch / LED Cable	Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

Serviceability Features of Chassis	Dual Color Power and HD LED to Indicate Normal Operations and Fault Conditions	Yes
	Diagnostic LED Label under Hood Cover	Yes
	Security Module (Smart Cover Lock and Hood Sensor)	Optional
	Front power switch	Yes
	Green Pull Tabs, and Quick Release Latches for easy Identification	Yes
	System memory can be upgraded without removing the system board or any internal components	Yes
	Tool-less Hood Removal	Yes (with captive thumbscrew)
	Tool-less Hard Drive, CD & Floppy Removal	Yes
	Tool-less System Board Removal	No
	Industry Standard CD Bay	Yes
	Towerable	Yes (Can also Rotate Drives)
	Universal Tower Stand	No (Not needed)
	Green Color Coded Latches & Cable Pull Tabs for Easy Identification	Yes
Interfaces	I/O Chip	Super IO 3
	Serial Port / UART Type	Yes (2) / SN75185
	Parallel Port	Yes
	USB	2 USB 1.1 (Optional 2 Front USB)
	Infrared Port	No
	Network	RJ-45 (with integrated LEDs)
	Keyboard	Yes (PS/2)
	Mouse	Yes (PS/2)
	Video	Yes (AGP 4X 1.5V Bus)
	Audio	Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

Power Supply	Full Ranging Input (No Line Select Switch)	Yes
	Active Power Factor Correction (APFC) (Input Current is nearly ½ a non-APFC PS)	Yes
	Operating Voltage Range	90 to 264VAC
	Rated Voltage Range	100 to 240VAC
	Rated Line Frequency	50-60 Hz
	Rated Input Current	3.6A @ 100VAC
	Maximum Rated Power	250W
	Heat Dissipation	Max: 1,313 BTU/hr
		Nominal: 656 BTU/hr
		Max: 331 kg-cal/hr
		Nominal: 165 kg-cal/hr
Power Conservation 'Energy Saver'	Energy Star Compliant	Yes
	Blue Angel Compliant (<5w in S5-Power Off)	Yes
	Power Consumption in ES Mode -Suspend to RAM (S3) (Instantly Available PC)	TBD
	APM Support	Yes
	Screen Blanking	Yes
	Hard Disk 'Idle' Mode	Yes
	System Idle Mode	Yes
	Processor/Cache Memory Power-Down (S3)	Yes
	CD-Rom Spins Down when not in use	Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

ROM Features	Instantly Available PC (Suspend to RAM - S3) ROM Based F10 Setup Remote System Installation via F12 (PXE) Failsafe Boot Block ROM Emergency ROM Flash Recovery with Video CMOS Archive and CMOS Restore Save and Restore CMOS Setup via Diskette Auto Setup when New Hardware Installed Serial, Parallel, USB Enable/Disable Port Control Removable Media Write / Boot Control Remote Boot from Server Network Server Mode Power-On Password Setup Password Memory Change Alert (Need IM to work) Thermal Alert (Need IM to work) Cover Removal Alert (Need IM to work) Master Boot Record Security Remote ROM Flash Remote Wakeup Power Management ACPI Ready DMI BIOS (Desktop Management Interface)	
System Environmental Specs	Operating Temperature	50° to 95°F/10°to 35° C (Derating of 1.0°C per 300m (1000ft) to 3000m (10,000ft), no direct sustained sunlight)
	Non-operating Temperature	-22° to 140° F-30° to 60° C (Maximum rate of change is 20°C/Hr.)
	Relative Humidity (non-condensing) Operating	10% to 90% (28°C maximum wet bulb temperature)
	Relative Humidity (non-condensing) Non-operating	5% to 95% (38.7°C maximum wet bulb temperature)
	Max Altitude (unpressurized) Operating	10,000 ft 3,048 m (Maximum allowable altitude change rate is1500 ft/min)
	Max Altitude (unpressurized) Non-operating	30,000 ft 9,144 m (Maximum allowable altitude change rate is 1500 ft/min)
	Acoustics	ENERGY SAVE MODE: LWAd = TBD Bels, Desktop Average LpAm = TBD dBA FIXED DISK - SCSI (Random write): LWAd = TBD Bels, Desktop Average LpAm = TBD dBA
	Shock (Operating)	5 G
	Shock (Non-Operating)	20 G 10 G (positive and negative directions front to back on Small Form Factor)
	Vibration (Operating)	Operating: Random vibration at 0.000215 G^2/Hz, 10Hz to 300Hz, (0.25G's nominal)
	Vibration (Non-Operating)	Random vibration at 0.0005 G^2/Hz, 10Hz to 500Hz, (0.5G's nominal).

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

Software		
Preinstalled Software	Microsoft Windows 98 SE	Yes
	Microsoft Windows 2000 SP2	Yes
	Microsoft Windows XP Pro	(when available from Microsoft)
	Microsoft Windows XP Home	(when available from Microsoft)
	Microsoft Windows XP Small Business	Yes
	Microsoft Windows XP Professional	Yes
	Norton Antivirus	Yes
	Computer Setup Utility via F10 (ROM Based)	Yes
	Diagnostics for Windows	Yes
	Microsoft Internet Explorer	Yes
Intelligent Manageability Agent	Yes	
Plug and Play Ready	Yes	
	Windows 98	Yes
	Windows 2000	Yes
	Windows XP Pro	Yes
	Windows XP Home	Yes
Boot Support	Local Diskette Boot	Yes
	Local CD Boot	Yes
	Remote Boot	Yes
	Network Boot	Yes
Intelligent Manageability	Information downloadable from: http://www.compaq.com/im	
Initial Configuration and Deployment	Intelligent Manageability Home Page	
	Altiris eXpress	
	PC Transplant / PC Transplant PRO	
	System Software Management	
	Novel ZenWorks 2.0	
	Insight Manager	
	Support Software CD	
	Compaq Software Restore CD	
Asset Control	Asset Tag	
	DIMM Serial Presence Detect	
	Hard drive serial number, model, & manufacturer	
	Monitor serial number, model & manufacturer	
	System serial number, model, & manufacturer	
	ROM revision levels	
	System board revision level	
	Compaq Fingerprint Identification Technology (Optional)	
	DMI BIOS	
	Memory Change Alert (Intelligent Manageability needed to work)	
	Ownership Tag	
	Smart Cover Lock (Optional)	
	Kensington Lock Support	
	Smart Cover Sensor (Optional)	

Standard Features – Base Unit Details

Compaq Evo Desktop D300s Series with 845 chipset

Standard Security Features	Asset Tracking and Security Home Page http://www.compaq.com/im/ats.html Optional Smart Cover Lock Mechanical Security Provision Cable Lock Provision Power-On Password Serial, Parallel, USB Enable/Disable Removable Media Write / Boot Control Power-On Password Setup Password
Software Updating and Management	Software Updating and Management Home Page http://www.compaq.com/im/sum.html Remote ROM Flash ROM Based Setup (F10)and Start-up Diagnostics Support Software CD & WWW Site
Fault Notification and Recovery	Fault Management Home Page http://www.compaq.com/im/fnr.html DMI BIOS SMART Hard Drives, Fault Notification, & Prefailure Warranty Proactive Backup ATA RAID Controller Option ECC Memory, Fault Notification, and Pre-failure Warning Processor Fault Notification and Prefailure Warranty (Not supported by P4 processor) Surge Tolerant Ful Ranging Power Supply Thermal Sensor Ultra ATA Integrity Monitoring (CRC Checking)
Other Features	ACPI-Ready Hardware Compaq Insight Manager LC and XE Agents Altiris agent Compaq Management Solutions Partners Program Dual-State Power Button Compaq Management Solutions Partners Program Wired for Management Support
Service and Support	On-site Warranty Note 1: This one-year, limited warranty covers all parts for one year and provides free, next-business-day Note 2 service (parts and labor) for the first year and includes free telephone support Note 3 24 hours a day, 7 days a week. The customer may extend or upgrade the warranty to provide labor and/or on-site service for the second and third years. Global coverage Note 2 ensures that any product purchased in one country and transferred to another non-restricted country will remain fully covered under the original warranty. Note 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Note 2: On-site service may be provided pursuant to a service contract between Compaq and an authorized Compaq third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country. Note 3: Technical telephone support applies only to Compaq-configured Compaq and third-party Compaq-qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.

After-Market Options

Graphics	NVIDIA GeForce2 MX200 16-MB AGP	251954-B21
	NVIDIA GeForce2 MX400 32-MB AGP	227003-B21
	Matrox G550 32-MB AGP VGA	250227-B21
	Matrox G550 32-MB AGP DVI	251435-B21
	Matrox G200 MMS PCI Quad with DVI Cables	179597-B21
	Matrox G200 MMS PCI Quad Analog Cables	159513-B21
	DVI Cables for the G200 MMS PCI Quad	170840-B21
Hard Drives	***SMART III Ultra ATA/100 Hard Drives with Drive Protection System*** *(DPS)*	
	120-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	250021-B21
	80-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	250020-B21
	40-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	201066-B21
	20-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	251974-B21
	Ultra ATA RAID Card	238051-B21
	SCSI Hard Drives	
	72-GB 10K rpm 1.0" Ultra3 (Ultra 160) SCSI Hard Drive	250023-B21
	36-GB 15K rpm Ultra3 (Ultra 160) SCSI Hard Drive	250022-B21
	18.2-GB 10K rpm Ultra3 (Ultra 160) SCSI Hard Drive	159764-B21
	18.2-GB 15K rpm Ultra3 (Ultra 160) SCSI Hard Drive	191188-B21
	Adaptec 29160N Ultra160 (Ultra3) SCSI Controller	157810-B21
Input/Output Devices	***Keyboards***	
	Compaq Easy Access Keyboard (carbon)	202109-008
	Mice	
	Compaq 2-Button Scroll Mouse	170299-B22
Memory (DIMMs)	***133-MHz SDRAM DIMMs***	
	256-MB Memory Kit (1 x 256-MB SDRAM DIMM, 133 MHz)	174225-B21
	128-MB Memory Kit (1 x 128-MB SDRAM DIMM, 133 MHz)	174224-B21
	64-MB Memory Kit (1 x 64-MB SDRAM DIMM, 133 MHz)	174223-B21
	133-MHz SDRAM DIMMs ECC	
	512-MB Memory Kit (1 x 512-MB SDRAM DIMM, 133 MHz)	254873-B21
	256-MB Memory Kit (1 x 256-MB SDRAM DIMM, 133 MHz)	254872-B21
	128-MB Memory Kit (1 x 128-MB SDRAM DIMM, 133 MHz)	254871-B21
Monitors	***TFTs***	
	Compaq TFT8030 Monitor (18-inch, Carbon/Silver)	234362-001
	Compaq TFT8030 Monitor (18-inch, Baseless)	250199-001
	Compaq TFT5030 Monitor (15-inch, Carbon/Silver)	228134-001
	Compaq TFT5030 Monitor (15-inch, Baseless)	250198-001
	Compaq TFT5015 Monitor (15-inch, Opal)	234043-001
	Compaq TFT5015 Monitor (15-inch, Carbon/Silver)	234044-001

After-Market Options

Monitors *(continued)*	***CRTs***	
	Professional Series	
	Compaq P1220 CRT Monitor (21-inch, Carbon/Silver)	244374-xxx
	Compaq P1210 CRT Monitor (21-inch, Opal)	210290-001
	Compaq P1210 CRT Monitor (21-inch, Carbon/Silver)	230538-001
	Compaq P920 CRT Monitor (19-inch, Carbon/Silver)	244375-xxx
	Compaq P910 CRT Monitor (19-inch, Opal)	210254-001
	Compaq P910 CRT Monitor (19-inch, Carbon/Silver)	230535-001
	Compaq P710 CRT Monitor (17-inch, Opal)	210189-001
	Compaq P720 CRT Monitor (17-inch, Carbon/Silver)	244373-xxx
	Value Series	
	Compaq V720 CRT Monitor (17-inch, Opal)	232943-xxx
	Compaq V720 CRT Monitor (17-inch, Carbon/Silver)	232944-xxx
	Compaq V710 CRT Monitor (17-inch, Opal)	187895-001
	Compaq V510 CRT Monitor (15-inch, Opal)	228114-xxx
	Compaq V510 CRT Monitor (15-inch, Carbon/Silver)	228113-xxx
	Standard Series	
	Compaq S910 CRT Monitor (19-inch, Opal)	138485-001
	Compaq S920 CRT Monitor (19-inch, Opal)	240325-xxx
	Compaq S920 CRT Monitor (19-inch, Carbon/Silver)	240326-xxx
	Compaq S710 CRT Monitor (17-inch, Opal)	152991-001
	Compaq S710 CRT Monitor (19-inch, Carbon)	154499-002
	Compaq M710 CRT Monitor (19-inch, Opal)	154499-005
	Compaq S720 CRT Monitor (17-inch, Opal)	239286-xxx
	Compaq S720 CRT Monitor (17-inch, Carbon/Silver)	239287-xxx
	Compaq M720 CRT Monitor (17-inch, Carbon/Silver)	238994-xxx
	Compaq M720 CRT Monitor (17-inch, Opal)	240759-xxx
	Compaq S510 CRT Monitor (15-inch, Carbon)	168636-002
	Compaq M510 CRT Monitor (15-inch, Opal)	168636-005
Multimedia	Labtec Spin-22 Speakers (carbon)	246637-001
Optical Drives	***DVD-ROM Drives***	
	16X/40X DVD-ROM Drive (carbon)	237495-B22
	DVD-RAM Drives	
	4.7-GB DVD-RAM Drive (carbon)	294415-B22
	CD-ROM Drives	
	48X Max CD-ROM Drive (carbon)	187217-B21
	DVD-RW Drives	
	4.7-GB DVD-RW Drive (carbon)	246625-B22
	4.7-GB DVD-R Media (5-pack)	239405-001
	4.7-GB DVD-RW Media	249142-001
	CD-RW Drives	
	16X/10X/40X CD-RW Drive	240598-B22
	Combo Drives	
	8X Combo DVD-ROM and CD-RW Drive (carbon)	244885-B22

After-Market Options

Removable Storage	***Floppy Drives***	
	ZIP 100 High-Capacity Floppy Drive (carbon)	294402-B22
	ZIP 100 Media 3-Pack	127591-001
	ZIP 250 High-Capacity Floppy Drive (carbon)	294416-B22
	ZIP 250 Media 3-Pack	217896-B21
	Tape Drives	
	TR5 10/20-GB Tape Drive (carbon)	294243-B21
	TR5 10/20-GB Media 3-Pack	125782-B21
	35/70-GB AIT SCSI Tape Drive (carbon)	246626-B22
Security	USB Biometric Identification Device	240238-B21

Memory

845 chipset (128-MB)

133-MHz SDRAM DIMM Memory

Standard Memory

128-MB DIMM Standard

Maximum Memory

Intel 845 Chipset supports up to 3-GB of PC133 SDRAM. Platform can utilize 3-GB of memory when 1-GB DIMMs are available with the installation of optional SDRAM Memory Kits.

Memory		Slot		
		1	2	3
Standard	128-MB	128-MB	Empty	Empty
Current Maximum Memory	1.5-GB	512-MB	512-MB	512-MB
Maximum Memory when 1-GB	3-GB	1-GB	1-GB	1-GB

Note: All Compaq Evo Desktop D300s contain three DIMM slots, but can only be upgraded to a maximum of 3-GB when 1-GB DIMMs are available.

Note: 1-GB PC133 SDRAM not currently offered as after-market options.

Note: It is not necessary to add memory in pairs or kits. Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations.

845 chipset (256-MB)

133-MHz SDRAM DIMM Memory

Standard Memory

256-MB DIMM Standard

Maximum Memory

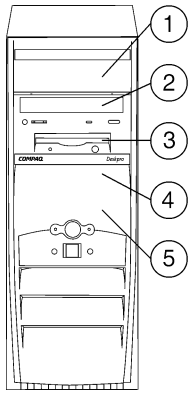
Intel 845 Chipset supports up to 3-GB of PC133 SDRAM. Platform can utilize 3-GB of memory when 1-GB DIMMs are available with the installation of optional SDRAM Memory Kits.

Memory		Slot		
		1	2	3
Standard	256-MB	256-MB	Empty	Empty
Current Maximum Memory	1.5-GB	512-MB	512-MB	512-MB
Maximum Memory when 1-GB	3-GB	1-GB	1-GB	1-GB

Note: All Compaq Evo Desktop D300s contain three DIMM slots, but can only be upgraded to a maximum of 3-GB when 1-GB DIMMs are available.

Note: 1-GB PC133 SDRAM not currently offered as after-market options.

Note: It is not necessary to add memory in pairs or kits. Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations.



Convertible Minitower Configuration

EVO DESKTOP D300S DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Diskette Drives	1	3	Floppy
Tape Drives	2	1,2	IDE
CD-ROM Drives	2	1,2	IDE
DVD-ROM Drives	2	1,2	IDE
CD-RW Drives	2	1,2	IDE
SMART III Ultra ATA Hard Drives	Up to 2	4,5	Ultra ATA
SCSI Hard Drives	Up to 2	4,5	SCSI

Technical Specifications – Audio

Integrated AC97 Audio with internal speaker	**Card Type**	Integrated
	Plug and Play	Yes
	Stereo Codec	Yes
	OPL3 FM Synthesis	Yes
	Sound Blaster Compatibility	Yes
	Ports	Microphone-in (10-Kohm Minimum) Line-in (10-Kohm Minimum) Headphone/Line-out (16-ohm Minimum)
	Sampling	7 kHz to 48 kHz
	Compression	ADPCM, ESPCM
	OS support	Windows 98 S.E. Windows 2000
	Wavetable Syntheses (software)	Yes

Integrated Intel PRO/100 VM Network Connection with WOL	**Manufacturer**	Intel®	
	Interface	Intel SingleDriver™ technology (10/100-Mbps support)	
	Connector	RJ-45	
	Expansion bus architecture	PCI 2.2	
	Configuration	Network transfer rate	10BASE-T (Half-Duplex) 10 Mbps
			10BASE-T (Full-Duplex) 20 Mbps
			100BASE-TX (Half-Duplex) 100 Mbps
			100BASE-TX (Full-Duplex) 200 Mbps
		Data interface	PCI, 32-bit bus mastering
		I/O address	Integrated connectivity with Intel I/O Controller Hub (ICH2)-based platforms
	OS driver support	Microsoft Windows NT 3.51 and 4.0, Microsoft Windows 95 and 98, Microsoft Windows 2000, Beta Novell® NetWare® 3.11, 3.12, and 4.1x, 5 Server Sun Solaris™, SCO UnixWare OpenDesktop and OpenServer	
	Software support	Instrumentation support for CIM/WBEM SNMP, DMI, PXE 2.0, Intel PROSet utility for installation and configuration, Alert on LAN Software Developer Kit and same code	
	Remote wakeup	Alert On LAN (tx alerting)—PME # AND WAKE signals; no cable required on 810 or 820 chipset platforms	
	Boot PROM support	Yes, Intel PRO/100 Boot Agent (PXE 2.0, RPL)	
	Special features	Digital adaptive equalization control, link status interrupt capability, boundary scan support, 3-port LED support (speed, link, activity), 10BASE-T auto polarity correction, diagnostic loopback mode, 1:1 transmit transformer ratio support, automatic detection of unplugged mode, remote monitoring (alerting)	
	Proactive alert technology	Alert on LAN (transmit functionality only)—requires Management Console software such as HP OpenView and requires alert utilities for the management console, proxy client software, client configuration software	
	F12 BIOS support	Yes	
	Environmental requirements	Operating temperature	32º to 131º F (0º to 55º C)
		Operating humidity (non-condensing)	85% at 131º F (55º C)
		Altitude	10,000 feet (3,048 meters)
		Non-operating temperature	-40º to 158º F (-40º to +70º C)
		Altitude	5,000 feet (15,240 meters)
	Power	300 mW typical in active transmit mode; reduced power in unplugged mode (<50 mW); 3.3 V device	
	Power management	ACPI 1.0	
	Flash package	48-pin Shrink Small Outline Package (SSOP)	
	Network management	PCI 2.2	
	LED indicators	Three-port support (speed, link, and activity)	
	Standards compliance	IEEE VLAN support (802.1A), IEEE 802.2, IEEE 802.3 and IEEE 802.3u, (100-Mbps ethernet), IEEE Intel Priority Packet (801.1p), SCO UnixWare OpenDesktop and OpenServer, PC'99	

3COM 3C920C-TX Network Connection	**Manufacturer**	3ComOL	
	Connector	RJ-45	
	Expansion bus architecture	PCI 2.2	
	Configuration	Network transfer rate	10BaseT (half-duplex) 10 Mbps
			10BaseT (full-duplex) 20 Mbps
			100BaseTX (half-duplex) 100 Mbps
			100BaseTX (full-duplex) 200 Mbps
		Data interface	PCI, 32-bit bus mastering
		I/O address	Automatic I/O address
		Interrupt level	Automatic IRQ setup
	Standards compliance	IEEE 802.3 (10-Mbps Ethernet), IEEE 802.3u (100-Mbps Ethernet)	
	OS driver support	Microsoft Windows 95, Microsoft Windows 98, Microsoft Windows 2000, Microsoft Windows NT 3.5/x and 4.0,	
	Remote wakeup	Yes, WAKE signal	
	Proactive alert technology	No	
	Environmental operating requirements	Temperature	32º to 131º F (0º to 55º C)
		Humidity (non-condensing)	10% to 90%
	Power management	ACPI	
	Network management	DMI 2.0, WfM 2.x, PCI 2.2	
	Power	+3.3 V, 340 mA	
	LED indicators	100-Mbps link, 10-Mbps link, activity	
	Dimensions	4.7 x 2.2 inches (12.0 x 5.6 cm)	
	Certifications	CE Mark, FCC Class B, VCCI Class B, CISPR 22 Class B	

Technical Specifications – Communications

Lucent V.90 56K PCI Win Modem	**Data Transmission**	V.90/K56flex technology speeds: 56,000 Kb/s maximum downstream data; controllerless
	Data Speeds	(upload only): 33,600; 31,200; 28,800; 26,400; 21,600; 19,200; 16,800; 14,400; 12,000; 9600; 7200; 4800; 2400; 1200; and 300 b/s
	Data Standards	ITU V.90, ITU-T, V.34, V.32 (bis), V.22bis, V.22, V.21, V.23, and Bell 212A, and Bell 103.
	Fax speeds	14400; 12000; 9600; 7200; 4800; 2400; 1200; 300 b/s
	Fax mode capabilities	Group 3 FAX: V.17, V.29 , V.27ter, and V21 Channel 2., Class 1 interface, TIA/EIA-578
	Error Correction and Data Compression	ITU-T recommended V.42 error correction, V.42 error correction (LAPM and MNP), V.42bis and MNP Class 5 data compression, ITU-T V.42bis data compression
	Power Management	APM and ACPI states D0, D1, D2, and D3, Meets PCI 2.2 requirements and PC 99 requirements
	Upgradability	Software driver upgradeable for future enhancements
	Video	ITU-T V.80 video ready interface
	Other	TIA/EIA 602 standard AT command set Built-in DTE interface with speeds up to 115.2 Kb/s, parallel 16550a UART-compatible interface Optional Ring wake signal
	Operating temperature	32° to 104° F/0° to 40° C
	Operating humidity	20% to 80%, non-condensing
	Operating System Driver Support	Microsoft Windows 98, 98SE, NT4.0, Windows 2000

Technical Specifications – Graphics

NVIDIA Vanta16-MB AGP Graphics Controller

Form factor	Half-size ATX
Bus type	AGP 4X
Memory support	16-MB SDRAM (64-bit frame buffer interface)
Memory clock	125 MHz
RAMDAC	250 MHz
Internal clock	100 MHz
Data path	64-bit
Process	0.22µ
Pipelines	2 (bilinear)
Fill rate	200 M pixels per second
Triangle rate	8 M triangles per second
Video overlay filter	2 x 2
MPEG support (software)	CSC IDCT
Color space conversion	Yes
Scaling	Yes
Quick draw support	Yes
DCI and Microsoft DirectX video playback	Yes
Microsoft DirectX support	Yes
3-D support	Yes
Engine acceleration	Basic video color conversion and scaling
	100% hardware triangle setup engine
Dual monitor support	With additional PCI controller only
OS support	Microsoft Windows 98, Microsoft Windows 2000, Microsoft Windows NT 4.0, Microsoft Windows Me
Other	Optimized for Direct3D acceleration with support for Microsoft DirectX 5.0 and 6.0
	128-bit TwiN-Texel (TNT) architecture
	Two texture-mapped, lit pixels per clock
	Single pass multi-texture rendering
	32-bit rendering with destination alpha
	24-bit Z-buffer, 8-bit stencil buffer
	Anisotropic filtering (superior to trilinear MIP-mapping)
	High-performance, 128-bit 2-D/GUI/DirectDraw acceleration
	Transparent BLT, stretch BLT, points, lines, polylines, polygons, fills, patterns, arbitrary clipping and fast text rendering; pipeline optimized for multiple color depths including 8, 16, and 24 bits per pixel
	Video acceleration for DirectShow, MPEG-1, MPEG-2 and Intel Indeo®
	Fast 32-bit VGA/SVGA
	Triple 8-bit, 250-MHz palette DAC

Resolutions Supported	Colors	Real-Time 3-D Gouraud Shading	Refresh Rates
1920 x 1200	256, 65K, 16.7M	256, 65K	60 to 75 Hz depending on color depth
1920 x 1080	256, 65K, 16.7M	256	60 to 85 Hz depending on color depth
1600 x 1200	256, 65K, 16.7M	256	60 to 85 Hz depending on OS and color depth
1280 x 1024	256, 65K, 16.7M	256, 65K	60 to 100 Hz
1152 x 864	256, 65K, 16.7M	256, 65K	60 to 85 Hz depending on color depth
1024 x 768	256, 65K, 16.7M	256, 65K, 16.7M	60 to 85 Hz
800 x 600	256, 65K, 16.7M	256, 65K, 16.7M	60 to 85 Hz
640 x 480	256, 65K, 16.7M	256, 65K, 16.7M	60 to 85 Hz

Technical Specifications – Graphics

NVIDIA GeForce2 MX 16- and 32-MB AGP Graphics Controllers

Vertical frequency	60-85 Hz
Graphics controller	NVIDIA GeForce2 MX 200 and 400
Bus type	AGP 4X
RAMDAC	Integrated 350 MHz RAMDAC
Memory type	SDRAM
Memory amount	16, 32 or 64-MB unified frame buffer and texture memory (16-MB on GeForce2 MX 200)
Memory speed	166 MHz
Data path	256-bit
Controller clock speed	GeForce2 MX 200—175 MHz GeForce2 MX 400—200 MHz GeForce2 32MB MX 400 w/ TV-Out—175 MHz (consumer models only) GeForce2 64MB MX 400 w/ TV-Out—175 MHz (consumer models only)
Maximum vertical refresh rate	85-Hz
Maximum pixel clock	350-MHz
Graphics API support	DirectX 7, DirectX 8
Operating systems support	Microsoft® Windows® 2000, Microsoft Windows NT 4.0, and Microsoft Windows 98
Buffer	96-bit (per pixel)
Image planes	24-bit double-buffered
Z-buffer	32-bit (24-bit with stencil planes)
Overlay	Supported
Stencil planes	8-bit (maximum)
Alpha planes	8-bit
External interface	Analog video output port; the video port (female, 15-pin, D-SUB connector) provides connection to an analog display

Resolutions Supported

Resolution	Refresh Rate (Hz) 8-bit Color	Max Refresh Rate (Hz) 16-bit Color	Max Refresh Rate (Hz) 32-bit Color
1920 x 1440	85, 75	85, 75	85, 75
1920 x 1200	85	85	85
1920 x 1080	85	85	85
1600 x 1200	85	85	85
1280 x 1024	85	85	85
1152 x 864	85	85	85
1024 x 768	85	85	85
800 x 600	85	85	85
640 x 480	85	85	85

Technical Specifications – Graphics

Matrox Millennium G450 Dual Head AGP and PCI Graphics Controllers

Form Factor	ATX	
Bus type	AGP 1X, 2X, 4X: PCI Rev 2.2 bus specification	
Standard memory	AGP: 32 MB / PCI: 16 MB	
DAC speed	360 MHz (secondary DAC: 200 MHz)	
Data path	64-bit DDR External/256-bit Internal	
Internal bus width	256-bit DualBus	
Memory interface	64-bit DDR Memory	
Frame buffer	AGP: 32 MB / PCI: 16 MB	
Two integrated RAMDACs	Yes	
Engine acceleration	3 ROP bitBLT, line draw, text, color expansion, basic video color conversion and scaling, triangle setup engine	
Other	PCI bus mastering, texture mapping support, flat and Gouraud shading, direct 3-D support, Anisotropic Filter, perspective texture, specular highlighting, wireframe, dithering, full scene anti-aliasing, vertex fog, dual texture mapping, Plug-and-Play AGP 2X and AGP 4X, 0.18-micron technology (lower heat/power consumption), high-quality DVD playback with full access to Microsoft Windows, Color Space Conversion, Quick Draw support, DCI and DirectX video playback, MS DirectDraw support	
3D Features	Single cycle multi-texturing	Yes
	Environment-mapped bump mapping	Yes
	Internal rendering	32-bit
	Source textures	Up to 32-bit
	Maximum texture size	2048 X 2048
	Hardware non-power-of- 2 textures	Yes
	32-bit color output	Yes
	32-bit independent Z-buffer	Yes
	Stencil buffering	Yes
	AGP texturing	Yes
	Trilinear filtering	Yes
	DirectX support	Yes
	OpenGL support	Yes
DualHead Display Features	Multi-Display Mode, DVD Max Mode, DualHead Zoom Mode, DualHead Clone Mode, Single Chip Multi-Monitor support	
Supported Modes	This list assumes setup to be DualHead multi-display running Microsoft Windows 98. If using Microsoft Windows NT 4.0 or Microsoft Windows 2000 while in multi-display, primary CRT is limited to modes supported by 2nd CRT.	

Primary CRT Color Depths	**Color Depths (bpp)**	**Refresh Rates**
640 x 480	8, 16, 24, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
800 x 600	8, 16, 24, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
1024 x 768	8, 16, 24, 32	60 Hz, 70 Hz, 75 Hz, 85 Hz
1152 x 864	8, 16, 24, 32	75 Hz
1280 x 960	8, 16, 24, 32	60 Hz, 75 Hz, 85 Hz
1280 x 1024	8, 16, 24, 32	60 Hz, 75 Hz, 85 Hz
1600 x 1200	8, 16, 24, 32	60 Hz, 65 Hz, 70 Hz, 75 Hz (85 Hz available in single monitor configuration only)
1800 x 1440	8, 16, 24	60 Hz, 72 Hz, 75 Hz, 85 Hz
1856 x 1392	8, 16, 24	60 Hz, 75 Hz, 85 Hz
1920 x 1440	8, 16, 24	60 Hz, 75 Hz, 85 Hz
2048 x 768	8, 16	60 Hz, 75 Hz
Secondary CRT Color Depths	**Color Depths (bpp)**	**Refresh Rates**
640 x 480	16, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
800 x 600	16, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
1024 x 768	16, 32	60 Hz, 70 Hz, 75 Hz, 85 Hz
1152 x 864	16, 32	75 Hz
1280 x 960	16, 32	60 Hz, 75 Hz, 85 Hz
1280 x 1024	16, 32	60 Hz, 75 Hz, 85 Hz
1600 x 1200	16, 32	60 Hz, 65 Hz, 70 Hz, 75 Hz, 85 Hz

Technical Specifications – Hard Drives

7200 rpm SMART III Ultra ATA/100 Hard Drives	**60 GB**	**Capacity**	60,000 MB	
		Rotational Speed	7200 rpm	
		Interface	Ultra ATA/100	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Transfer Rate Synchronous (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8 ms (10.1 ms quiet seek)
			Full-Stroke	18 ms (21.1 ms quiet seek)
		Physical Configuration	Logical Blocks	78,165,360
		Operating Temperature	41° to 131°F/5° to 55°C	
		Note: 60-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels.		
	40 GB	**Capacity**	40,000 MB	
		Rotational Speed	7200 rpm	
		Interface	Ultra ATA/100	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Transfer Rate Synchronous (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8 ms (10.1 ms quiet seek)
			Full-Stroke	18 ms (21.1 ms quiet seek)
		Physical Configuration	Logical Blocks	78,165,360
		Operating Temperature	41° to 131°F/5° to 55°C	
		Note: 40-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels.		
	20 GB	**Capacity**	20,000 MB	
		Rotational Speed	7200 rpm	
		Interface	Ultra ATA/100	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Transfer Rate Synchronous (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8 ms (10.1 ms quiet seek)
			Full-Stroke	18 ms (21.1 ms quiet seek)
		Physical Configuration	Logical Blocks	39,102,336
		Operating Temperature	41° to 131°F/5° to 55°C	
		Note: 20-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels		

Technical Specifications – Hard Drives

5400 rpm SMART III Ultra ATA/100 Hard Drives	**40 GB**	**Capacity**	40,000 MB	
		Rotational Speed	5400 rpm	
		Interface	Ultra ATA/100	
		Transfer Rate Synchronous (Maximum)	66 MB/s	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Seek Time (typical reads, including settling)	Single Track	1.5 ms (2.9 ms quiet seek)
			Average	10.5 ms (12.4 ms quiet seek)
			Full-Stroke	23 ms (23 ms quiet seek)
		Physical Configuration	Logical Blocks	39,102,336
		Operating Temperature	41° to 131°F/5° to 55°C	
		Note: 40-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels.		
	20 GB	**Capacity**	20,000 MB	
		Rotational Speed	5400 rpm	
		Interface	Ultra ATA/100	
		Transfer Rate Synchronous (Maximum)	66 MB/s	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Seek Time (typical reads, including settling)	Single Track	1.5 ms (2.9 ms quiet seek)
			Average	10.5 ms (12.4 ms quiet seek)
			Full-Stroke	23 ms (23 ms quiet seek)
		Physical Configuration	Logical Blocks	39,102,336
		Operating Temperature	41° to 131°F/5° to 55°C	
		Note: 20-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels.		

Technical Specifications – Input/Output Devices

Compaq Easy Access Keyboard	**Dimensions (HxWxD)**	18.3 x 6.3 x 1.4 in/465 x 160 x 36 mm	
	Weight	Approximately 2 lbs/0.9 kg	
	Electrical	Operating Voltage	+5VDC ± 5%
		Power Consumption	50 mA maximum (with 3 LEDs on)
		System Interface	PS/2 mini-din connector
		ESD	CE level 4, 15 kV air discharge
		EMI-RFI	Conforms to FCC rules for a Class B computing device
		PC98	Functionally compliant
	Mechanical	Languages	30+ available
		Keycaps	Low-profile design
		Switch Actuation	55 g nominal peak force with tactile feedback
		Switch Life	20 million keystrokes (using Hasco modified tester)
		Switch Type	Contamination resistant membrane
		Key Leveling Mechanism	For all double wide and greater length keys
		Cable Length	6 ft/1.8 m
		PC98-99	Mechanically compliant
		Acoustics	50 dBA maximum sound pressure level
	Environmental	Operating Temperature	50° to 122° F/10° to 50° C
		Non-operating Temperature	–22° to 140° F/–30° to 60° C
		Operating Humidity	10% to 90% (non condensing at ambient)
		Non-operating Humidity	20% to 80% (non condensing at ambient)
		Operating Shock	40 g, 6 surfaces
		Non-operating Shock	80 g, 6 surfaces
		Operating Vibration	2 g peak acceleration
		Non-operating Vibration	4 g peak acceleration

Technical Specifications – Input/Output Devices

Compaq 2-Button Scroll Mouse	**Scroll Wheel**	8 mm	
	Maximum Rotation Speed	30 mm/s	
	Switch Type	Light force micro-switch	
	Switch Life	1 million operations	
	Mechanical Life	Minimum 200,000 revolutions	
	Environmental	Operating Temperature	50° to 122° F/10° to 50° C
		Non-operating Temperature	–22° to 140° F/–30° to 60° C
		Operating Humidity	10% to 90% (non condensing at ambient)
		Non-operating Humidity	20% to 80% (non condensing at ambient)
		Operating Shock	40 g, 6 surfaces
		Non-operating Shock	80 g, 6 surfaces
		Operating Vibration	2 g peak acceleration
		Non-operating Vibration	4 g peak acceleration
	Electrical	Operating Voltage	+5VDC ± 10%
		Power Consumption	15mA
		System Consumption	PS/2 mini-din connector
		ESD	CE level 4, 15 kV air discharge
		EMI-RFI	Conforms to FCC rules for a Class B computing device
		PC98	Functionally compliant
	Mechanical	Resolution	400 ± 20% DPI
		Tracking Speed	10 in/s maximum
		Acceleration	100 in/s
		Switch Actuation	85 g nominal peak force
		Switch Life	1,000,000 operations (using Hasco modified tester)
		Cable Length	2 m
		PC98-99	Mechanically compliant
	Regulatory Approvals	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BCIQ, C-Tick	

Technical Specifications – Optical Storage

48X CD-ROM Drive	**Interface**	ATAPI IDE	
	Data buffer	16.6 Mbps	
	Data transfer rate	Sustained—150 Kbps minimum (audio)	Variable (CD)—3,000 to 7,200 Kbps
	Disk rotation technology	CAV (Constant Angular Velocity)	
	Access time (ms)	Random: <100 ms	Full-stroke seek: <150 ms
	Average access time	< 80 ms	
	Cache buffer (standard/maximum)	128 KB	
	Disk formats read	Multi-session Photo CD, multi-read CD-ROM, CD text, audio CD, CD-I, CD-RW, CD-R, CD-Extra, CD-ROM XA	
	Disk formats written	None	
	Disk capacity (CD)	650 MB	
	Block size	Mode 1—2,048 bytes Mode 2—2,340 / 2,336 bytes CD-DA—2,352 bytes CD-XA—2,328 bytes	
	Diameter	12 cm; 8 cm	
	Thickness	1.2 mm	
	Track pitch	1.6 µm	
	Audio output level	Line-out—0.7 V @ 47 Kohm	Headphone—0.6 V @ 32 ohm
	Startup time	<7 seconds (typical); < 30 seconds with multi-session	
	Operating conditions	Temperature Relative humidity	41° to 113° F (5° to 45° C) 10% to 80%
	Dimensions (HxWxD, maximum)	1.7 x 5.9 x 8.2 inches (4.3 x 15.0 x 20.8 cm)	
	Weight	2.6 pounds (1200 g)	
	Operating systems supported	Microsoft Windows 98/98SE, Microsoft Windows 2000, and Microsoft Windows NT 4.0 SP4 or later	
	MPEG playback graphics solution support	None	

Technical Specifications – Optical Storage

16X/10X/40X CD-RW Drive	**Interface**	ATAPI IDE	
	Media formats written	CD-R and CD-RW	
	Media capacity	650 MB	
	Write methods	Disc-at-once, track-at-once, session-at-once, fixed packet, and variable packet	
	Recording/playing time	74 minutes	
	Data transfer rates	Sustained	CD-R write—2,400 Kbps (16X)
			CD-RW write (1-4X media) —1,500 Kbps (4X)
			CD-RW write (4-10X media) —1,500 Kbps (10X)
			CD-RW read—1,500 Kbps (10X)
			Digital audio extraction (minimum) —1,500 Kbps (10X)
		Variable	CD-ROM, CD-R read—1,500 to 6,000 Kbps (10X to 40X)
	Data transfer modes	ATA PIO mode 4—16.7 Mbps	
		ATA multi-word DMA mode 2—16.7 Mbps	
		ATA UltraDMA mode 0—16.7 Mbps (mandatory and default setting)	
		ATA UltraDMA mode 1—24 Mbps (optional); mode 2—33 Mbps (optional)	
	Media formats read	CD-audio, CD-ROM (modes 1 and 2), CD-ROM XA (mode 2, forms 1 and 2), single- or multi-session photo CD, CD-I, video CD, CD-text	
	Access times	Random	<120 ms typical
		Full stroke	<200 ms typical
	Rotational speed	17X—40X CAV	8,350 RPM, constant
		16X CLV	3,424—7,952 RPM
		10X CLV	2,140—4,970 RPM
		8X CLV	1,712—3,976 RPM
		4X CLV	856—1,988 RPM
	Start-up time	Single	<7 seconds typical
		Multi-session	<30 seconds typical
	Stop time	<4 seconds	
	Block size	Mode 1—2,048 / 2,352 bytes	
		Mode 2, Form 1—2,048 / 2,328 / 2,336 / 2,340 / 2,352 bytes	
		Mode 2, Form 2—2,328 / 2,336 / 2,340 / 2,352 bytes	
		CD-DA—2,352 / 2,368 bytes	
	Disc diameter	120 mm or 80 mm	
	Track pitch	1.6 µm	
	Disc loading mechanism	Half-height, tray load	
	Operating conditions	Temperature	41° to 113° F (5° to 45° C) operating; -4° to 140° F
		Humidity	10% to 80%
	Mounting orientation	Horizontal or vertical	
	Dimensions	Fits in a standard 5.25-inch drive bay	
	Weight	2.6 pounds (1.2 kg)	
	Approvals/environmental	UL 94 and 1950, CSA, CE, FDA, FCC	
	Operating systems supported	Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows 2000	

Technical Specifications – Optical Storage

16X/40X DVD-ROM Drive with RAM Read

Bus	Ultra DMA 33	
Data transfer rate (1 KB = 1024 bytes)	Sustained	DVD = 8.1 Mbps to 21.6 Mbps CD-ROM = 2.55 Kbps to 6.00 Kbps
Disc rotation technology	DVD—CAV (Constant Angular Velocity) CD—CAV	
Access time (ms)	Random	DVD = <100 ms; CD-ROM = < 80 ms
	Full stroke seek	DVD = <240 ms; CD-ROM = <160 ms
Cache buffer standard / max	512 KB	
ATAPI interface	ATAPI	
Disc formats read	DVD-RAM, DVD-ROM, DVD-video, DVD-R, DVD-RW, DVD-RAM, Photo CD/multi-session, CD-ROM, CD text, audio CD, CD-I, CD-RW, CD-R, CD-DA, video CD, CD Extra, CD-ROM XA, MPEG, MPC level	
Disc formats written	None	
Disc	Capacity	CD—650 MB DVD—4.7 GB
	Block size	Mode 0—2,352 (bytes) Mode 1—2,352 / 2,340 / 2,336 / 2,048 (bytes) Mode 2—2,352 / 2,340 / 2,336 / 2,048 (bytes) DVD—2,048 (bytes)
	Diameter	12 cm, 8 cm
	Thickness	1.2 mm (CD-ROM) 1.2 mm (DVD)
	Track pitch	1.6 µm (CD-ROM) 0.74 µm (DVD)
Audio output level	Line out	0.7± 0.1 Vrms
	Headphones	0.45 ± 0.2 Vrms
Operating conditions	Temperature	41° to 113° F (5° to 45° C)
	Humidity	5% to 85% relative humidity
Dimensions (HxWxD)	1.67 x 5.83 x 8.18 inches (4.23 x 14.81 x 20.75 cm)	
Weight	2.22 pounds (1 kg)	
Agency approvals / environmentals	UL, CSA, TUV, FDA, FCC, CE, EMI	
OS support	Microsoft Windows 98/98SE, Microsoft Windows Me, Microsoft Windows 2000, and Microsoft Windows NT 4.0 Note: MPEG video playback is not supported on Microsoft Windows NT.	
MPEG video playback compatibility	Refer to the platform for support	
RPC2 (Regional Protection Control)	Yes	
Minimum CPU supported	Intel® Pentium® II 400 MHz or Intel Celeron™ 466 MHz	
Mounting orientation	Operates in horizontal or vertical position	

Technical Specifications – Removable Storage

1.44-MB Diskette Drive	**Diskette Size**	3.5 in.	
	LED Indicators (front panel)	Green	
	Read/Write Capacity per diskette (high/low density)	1.44 MB/720 KB	
	Drive Supported	One	
	Drive Height	One-third	
	Drive Rotation	300 rpm	
	Transfer Rate (high/low)	500/250 Kb/s	
	Bytes/Sector	512	
	Sectors/Track (high/low)	18/9	
	Tracks/Side (high/low)	80/80	
	Access Times	Track-to-Track (high/low)	3/6 ms
		Average (high/low)	169/94 ms
		Settling Time	15 ms
		Latency Average	100 ms
Zip 250 Drive	**Interface**	ATAPI IDE	
	Media format supported	Zip disk	
	Media capacity	250 MB	
	Access time	29 ms (average)	
	Drive rotational speed	2,941 rpm	
	Size	Fits into a 5.25-inch bay (with bracket)	
	Data transfer rate	Maximum sustained	2.4 Mbps
			1.4 Mbps
			1.4 Mbps (100 MB), 2.4 MB/s (250 MB)
			0.3 Mbps (100 MB), 2.4 MB/s (250 MB)
			11.1 Mbps
	Operating conditions	Temperature	50° to 125° F (10° to 51.5° C)
		Humidity	20% to 80%
	Compatible operating system	Microsoft Windows 98/98SE, Microsoft Windows 2000, and Microsoft Windows NT 4.0 SP4 or later	

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